Figure 2

NY-UP : 5'-CGA **CAT ATG** TAG **ATG CAT** TAG TTT GTG TTA TGT TTC AAC GTG-3' (SEQ ID NO:36)

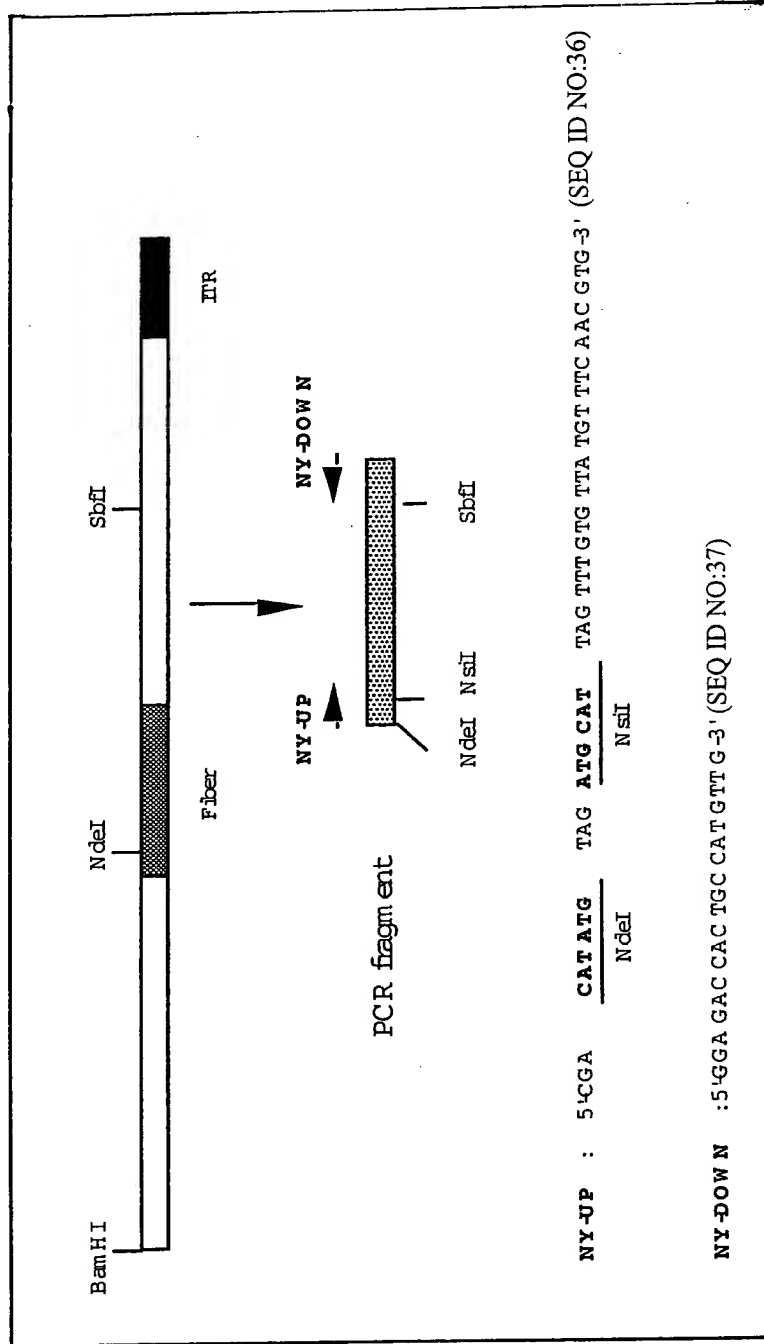NY-DOWN :5'-GGA GAC CAC TGC CAT GTT G-3' (SEQ ID NO:37)

Figure 4: Sequence of Ad5/fib16 chimeric fiber

ATGAAGCGCGCAAGACCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGAAGATGAAAGCAGCT
CACAACACCCCTTTATAAACCCTGGTTTCATTTCCTCAAATGGTTTTGCACAAAGCCCAGATGGAGT
TCTAACTCTTAAATGTGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAAGC
AGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACTGCCGAAGCGCCACTCACTA
AAACTAACCACTCCATAGGTTTATTAATAGGATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTT
ATCGCTGGGAGATGGGTTGGTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTAATA
ACAAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTGTTTGACTCTTCCAATGCTATCA
CCATAGAAAACAACACCTTGTGGACAGGCGCAAAACCAAGCGCCAACTGTGTAATTAAAGAGGGAGA
AGATTCCCCAGACTGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATACATA
ACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACAATCAAGTTACAATCGATGTAA
ACCTCGCATTTGATAATACTGGCCAAATTATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTT
TAAAGACAACCAAAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCACCACC
GCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGATTACATTTATGGAGAGTGTTACT
ACAAATCTACCAATGGAACTCTCTTTCCACTAAAGTTACTGTCACACTAAACAGACGTATGTTAGC
TTCTGGAATGGCCTATGCTATGAATTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAAACTACC
GAAGTCACTCTCATTACCTCCCCCTTCTTTTTTTCTTATATCAGAGAAGATGAC**TGA**ATGCATTAG

(SEQ ID NO:32)

FIGURE 7A

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  1    A T G G C - C A A A C G A G C T C G G C T A A G C A G C T C C T T C A A T C C G G T C T A C C C C T   Fiber 16 Genbank (SEQ ID NO:33)
  1    A T G A A G C G C G C A A G A C C G T C T G A - G A T A C C T T C A A C C C C G T G T A T C C A T   Ad5/16 Fiber DNA (SEQ ID NO:38)

 50    A T G A A G A T G A A A G C A G C T C A C A A C A C C C C T T T A T A A A C C C T G G T T T C A T T   Fiber 16 Genbank
 50    A T G A A G A T G A A A G C A G C T C A C A A C A C C C C T T T A T A A A C C C T G G T T T C A T T   Ad5/16 Fiber DNA

100    T C C T C A A A T G G T T T T G C A C A A A G C C C A G A T G G A G T T C T A A C T C T T A A A T G   Fiber 16 Genbank
100    T C C T C A A A T G G T T T T G C A C A A A G C C C A G A T G G A G T T C T A A C T C T T A A A T G   Ad5/16 Fiber DNA

150    T G T T A A T C C A C T C A C T A C C G C C A G C G G A C C C C T C C A A C T T A A A G T T G G A A   Fiber 16 Genbank
150    T G T T A A T C C A C T C A C T A C C G C C A G C G G A C C C C T C C A A C T T A A A G T T G G A A   Ad5/16 Fiber DNA

200    G C A G T C T T A C A G T A G A T A C T A T C G A T G G G T C T T T G G A G G A A A A T A T A A C T   Fiber 16 Genbank
200    G C A G T C T T A C A G T A G A T A C T A T C G A T G G G T C T T T G G A G G A A A A T A T A A C T   Ad5/16 Fiber DNA

250    G C C G C A G C G C C A C T C A C T A A A A C T A A C C A C T C C A T A G G T T T A T T A A T A G G   Fiber 16 Genbank
250    G C C G A A G C G C C A C T C A C T A A A A C T A A C C A C T C C A T A G G T T T A T T A A T A G G   Ad5/16 Fiber DNA

300    A T C T G G C T T G C A A A C A A A G G A T G A T A A A C T T T G T T T A T C G C T G G G A G A T G   Fiber 16 Genbank
300    A T C T G G C T T G C A A A C A A A G G A T G A T A A A C T T T G T T T A T C G C T G G G A G A T G   Ad5/16 Fiber DNA

350    G G T T G G T A A C A A A G G A T G A T A A A C T A T G T T T A T C G C T G G G A G A T G G G T T A   Fiber 16 Genbank
350    G G T T G G T A A C A A A G G A T G A T A A A C T A T G T T T A T C G C T G G G A G A T G G G T T A   Ad5/16 Fiber DNA

400    A T A A C A A A A A A T G A T G T A C T A T G T G C C A A A C T A G G A C A T G G C C T T G T G T T   Fiber 16 Genbank
400    A T A A C A A A A A A T G A T G T A C T A T G T G C C A A A C T A G G A C A T G G C C T T G T G T T   Ad5/16 Fiber DNA

450    T G A C T C T T C C A A T G C T A T C A C C A T A G A A A A C A A C A C C T T G T G G A C A G G C G   Fiber 16 Genbank
450    T G A C T C T T C C A A T G C T A T C A C C A T A G A A A A C A A C A C C T T G T G G A C A G G C G   Ad5/16 Fiber DNA

500    C A A A A C C A A G C G C C A A C T G T G T A A T T A A A G A G G G A G A A G A T T C C C C A G A C   Fiber 16 Genbank
500    C A A A A C C A A G C G C C A A C T G T G T A A T T A A A G A G G G A G A A G A T T C C C C A G A C   Ad5/16 Fiber DNA

550    T G T A A G C T C A C T T T A G T T C T A G T G A A G A A T G G A G G A C T G A T A A A T G G A T A   Fiber 16 Genbank
550    T G T A A G C T C A C T T T A G T T C T A G T G A A G A A T G G A G G A C T G A T A A A T G G A T A   Ad5/16 Fiber DNA

600    C A T A A C A T T A A T G G G A G C C T C A G A A T A T A C T A A C A C C T T G T T T A A A A A C A   Fiber 16 Genbank
600    C A T A A C A T T A A T G G G A G C C T C A G A A T A T A C T A A C A C C T T G T T T A A A A A C A   Ad5/16 Fiber DNA

650    A T C A A G T T A C A A T C G A T G T A A A C C T C G C A T T T G A T A A T A C T G G C C A A A T T   Fiber 16 Genbank
650    A T C A A G T T A C A A T C G A T G T A A A C C T C G C A T T T G A T A A T A C T G G C C A A A T T   Ad5/16 Fiber DNA

700    A T T A C T T A C C T A T C A T C C C T T A A A A G T A A C C T G A A C T T T A A A G A C A A C C A   Fiber 16 Genbank
700    A T T A C T T A C C T A T C A T C C C T T A A A A G T A A C C T G A A C T T T A A A G A C A A C C A   Ad5/16 Fiber DNA

750    A A A C A T G G C T A C T G G A A C C A T A A C C A G T G C C A A A G G C T T C A T G C C C A G C A   Fiber 16 Genbank
750    A A A C A T G G C T A C T G G A A C C A T A A C C A G T G C C A A A G G C T T C A T G C C C A G C A   Ad5/16 Fiber DNA

800    C C A C C G C C T A T C C A T T T A T A A C A T A C G C C A C T G A G A C C C T A A A T G A A G A T   Fiber 16 Genbank
800    C C A C C G C C T A T C C A T T T A T A A C A T A C G C C A C T G A G A C C C T A A A T G A A G A T   Ad5/16 Fiber DNA

850    T A C A T T T A T G G A G A G T G T T A C T A C A A A T C T A C C A A T G G A A C T C T C T T T C C   Fiber 16 Genbank
850    T A C A T T T A T G G A G A G T G T T A C T A C A A A T C T A C C A A T G G A A C T C T C T T T C C   Ad5/16 Fiber DNA

900    A C T A A A A G T T A C T G T C A C A C T A A A C A G A C G T A T G T T A G C T T C T G G A A T G G   Fiber 16 Genbank
900    A C T A A A A G T T A C T G T C A C A C T A A A C A G A C G T A T G T T A G C T T C T G G A A T G G   Ad5/16 Fiber DNA

950    C C T A T G C T A T G A A T T T T T C A T G G T C T C T A A A T G C A G A G G A A G C C C C G G A A   Fiber 16 Genbank
950    C C T A T G C T A T G A A T T T T T C A T G G T C T C T A A A T G C A G A G G A A G C C C C G G A A   Ad5/16 Fiber DNA

1000   A C T A C C G A A G T C A C T C T C A T T A C C T C C C C C T T C T T T T T T T C T T A T A T C A G   Fiber 16 Genbank
1000   A C T A C C G A A G T C A C T C T C A T T A C C T C C C C C T T C T T T T T T T C T T A T A T C A G   Ad5/16 Fiber DNA

1050   A G A A G A T G A C T G A   Fiber 16 Genbank
1050   A G A A G A T G A C T G A A T G C A T T A G T T T G T G T T A T G T T T C A A C G T G T T T A T T T   Ad5/16 Fiber DNA

1062                                                                                 Fiber 16 Genbank
1100   T C A A T T G                                                                  Ad5/16 Fiber DNA
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Decoration 'Decoration #1': Box residues that differ from Fiber 16 Genbank.

FIGURE 7B

Alignment Report of alignment.prot, using Clustal method with PAM250 residue weight table.

Wednesday, March 31, 1999 16:19

| 1 | M A K R A R L S S - S F N P V Y P Y E D E S S S Q H P F I N | genbank Fiber 16 | (SEQ ID NO:35) |
| 1 | M - K R A R P S E D T F N P V Y P Y E D E S S S Q H P F I N | chimeric Ad5/Fib16 | (SEQ ID NO:34) |

| 30 | P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G | genbank Fiber 16 |
| 30 | P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G | chimeric Ad5/Fib16 |

| 60 | P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T | genbank Fiber 16 |
| 60 | P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T | chimeric Ad5/Fib16 |

| 90 | K T N H S I G L L I G S G L Q T K D D K L C L S L G D G L V | genbank Fiber 16 |
| 90 | K T N H S I G L L I G S G L Q T K D D K L C L S L E D G L V | chimeric Ad5/Fib16 |

| 120 | T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V | genbank Fiber 16 |
| 120 | T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V | chimeric Ad5/Fib16 |

| 150 | F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E | genbank Fiber 16 |
| 150 | F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E | chimeric Ad5/Fib16 |

| 180 | D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y | genbank Fiber 16 |
| 180 | D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y | chimeric Ad5/Fib16 |

| 210 | T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S | genbank Fiber 16 |
| 210 | T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S | chimeric Ad5/Fib16 |

| 240 | L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A | genbank Fiber 16 |
| 240 | L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A | chimeric Ad5/Fib16 |

| 270 | Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F | genbank Fiber 16 |
| 270 | Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F | chimeric Ad5/Fib16 |

| 300 | P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E | genbank Fiber 16 |
| 300 | P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E | chimeric Ad5/Fib16 |

| 330 | E A P E T T E V T L I T S P F F F S Y I R E D D | genbank Fiber 16 |
| 330 | E A P E T T E V T L I T S P F F F S Y I R E D D | chimeric Ad5/Fib16 |

Decoration 'Decoration #1': Box residues that differ from genbank Fiber 16 .